

K. Sorensen

CRF Errors Corrected by the STIC Systems Branch

1812

Serial Number: 08/842,898

CRF Processing Date: 1/13/98
Edited by: [Signature]
Verified by: [Signature] (STIC staff)

#6

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☒ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
Seq 6 "ORGANISM"
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file;
☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☒ Other: Seq 1 - added opening parentheses; Seq 3-5 - replaced
letter "I" w/ numeral 1 under amino acids

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

Applicati n No.: _____

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING
NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES**

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- ☒ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
- ☒ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- ☐ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of th "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- ☐ 7. Other: _____

Applicant Must Provide:

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- ☒ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

For PatentIn software help, call (703) 308-6856

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/842,898DATE: 01/14/98
TIME: 16:39:38

INPUT SET: S22556.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

#6 CR
01/27/98

SEQUENCE LISTING

(1) General Information:

(i) APPLICANT: BROEKAERT, WILLEM F.
CAMMUE, BRUNO P.A.
OSBORN, RUPERT W.
REES, SARAH B.

(ii) TITLE OF INVENTION: ANTIMICROBIAL PROTEINS

(iii) NUMBER OF SEQUENCES: 13

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: PILLSBURY MADISON & SUTRO LLP
(B) STREET: 1100 New York Avenue, N.W.
(C) CITY: Washington
(D) STATE: D.C.
(E) COUNTRY: U.S.A.
(F) ZIP: 20005-3918

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: Microsoft Word

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US/08/842,898
(B) FILING DATE: 22-OCT-1996
(C) CLASSIFICATION: 536

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/656,318
(B) FILING DATE: 12-JUN-1996

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: PCT/GB94/02766
(B) FILING DATE: 19-DEC-1994

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: GB 9326424.0
(B) FILING DATE: 24-DEC-1993

(2) INFORMATION FOR SEQ ID NO: 1:

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/842,898DATE: 01/14/98
TIME: 16:39:41

INPUT SET: S22556.raw

47
48 (i) SEQUENCE CHARACTERISTICS:
49 (A) LENGTH: 54 amino acids
50 (B) TYPE: amino acid
51 (C) STRANDEDNESS: single
52 (D) TOPOLOGY: linear
53
54 (ii) MOLECULE TYPE: protein
55
56 (vi) ORIGINAL SOURCE:
57 (A) ORGANISM: Hs-AFPl
58
59 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
60
61 Asp Gly Val Lys Leu Cys Asp Val Pro Ser Gly Thr Trp Ser Gly His
62 1 5 10 15
63
64 Cys Gly Ser Ser Ser Lys Cys Ser Gln Gln Cys Lys Asp Arg Glu His
65 20 25 30
66
67 Phe Ala Tyr Gly Gly Ala Cys His Tyr Gln Phe Pro Ser Val Lys Cys
68 35 40 45
69
70 Phe Cys Lys Arg Gln Cys
71 50
72
73
74 (2) INFORMATION FOR SEQ ID NO: 2:
75
76 (i) SEQUENCE CHARACTERISTICS:
77 (A) LENGTH: 50 amino acids
78 (B) TYPE: amino acid
79 (C) STRANDEDNESS: single
80 (D) TOPOLOGY: linear
81
82 (ii) MOLECULE TYPE: protein
83
84 (vi) ORIGINAL SOURCE:
85 (A) ORGANISM: Ah-AMPl
86
87 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
88
89 Leu Cys Asn Glu Arg Pro Ser Gln Thr Trp Ser Gly Asn Cys Gly Asn
90 1 5 10 15
91
92 Thr Ala His Cys Asp Lys Gln Cys Gln Asp Trp Glu Lys Ala Ser His
93 20 25 30
94
95 Gly Ala Cys His Lys Arg Glu Asn His Trp Lys Cys Phe Cys Tyr Phe
96 35 40 45
97
98 Asn Cys
99 50

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/842,898DATE: 01/14/98
TIME: 16:39:44

INPUT SET: S22556.raw

100
101
102 (2) INFORMATION FOR SEQ ID NO: 3:
103 (i) SEQUENCE CHARACTERISTICS:
104 (A) LENGTH: 51 amino acids
105 (B) TYPE: amino acid
106 (C) STRANDEDNESS: single
107 (D) TOPOLOGY: linear
108
109 (ii) MOLECULE TYPE: protein
110
111 (vi) ORIGINAL SOURCE:
112 (A) ORGANISM: Rs-AFP1
113
114 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
115
116 Glx Lys Leu Cys Glu Arg Pro Ser Gly Thr Trp Ser Gly Val Cys Gly
117 1 5 10 15
118
119 Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Asn Leu Glu Lys Ala Arg
120 20 25 30
121
122 His Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr
123 35 40 45
124
125 Phe Pro Cys
126 50
127
128
129 (2) INFORMATION FOR SEQ ID NO: 4:
130
131 (i) SEQUENCE CHARACTERISTICS:
132 (A) LENGTH: 51 amino acids
133 (B) TYPE: amino acid
134 (C) STRANDEDNESS: single
135 (D) TOPOLOGY: linear
136
137 (ii) MOLECULE TYPE: protein
138
139 (vi) ORIGINAL SOURCE:
140 (A) ORGANISM: Rs-AFP2
141
142 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
143
144 Glx Lys Leu Cys Gln Arg Pro Ser Gly Thr Trp Ser Gly Val Cys Gly
145 1 5 10 15
146
147 Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Arg Leu Glu Lys Ala Arg
148 20 25 30
149
150 His Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr
151 35 40 45
152

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/842,898DATE: 01/14/98
TIME: 16:39:48

INPUT SET: S22556.raw

153 Phe Pro Cys
154 50
155
156157 (2) INFORMATION FOR SEQ ID NO: 5:
158

159 (i) SEQUENCE CHARACTERISTICS:

160 (A) LENGTH: 50 amino acids

161 (B) TYPE: amino acid

162 (C) STRANDEDNESS: single

163 (D) TOPOLOGY: linear
164165 (ii) MOLECULE TYPE: protein
166

167 (vi) ORIGINAL SOURCE:

168 (A) ORGANISM: Dm-AMPl
169170 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
171172 Glu Leu Cys Glu Lys Ala Ser Lys Thr Trp Ser Gly Asn Cys Gly Asn
173 1 5 10 15
174175 Thr Gly His Cys Asp Asn Gln Cys Lys Ser Trp Glu Gly Ala Ala His
176 20 25 30
177178 Gly Ala Cys His Val Arg Asn Gly Lys His Met Cys Phe Cys Tyr Phe
179 35 40 45
180181 Asn Cys
182 50
183
184185 (2) INFORMATION FOR SEQ ID NO: 6:
186

187 (i) SEQUENCE CHARACTERISTICS:

188 (A) LENGTH: 50 amino acids

189 (B) TYPE: amino acid

190 (C) STRANDEDNESS: single

191 (D) TOPOLOGY: linear
192193 (ii) MOLECULE TYPE: protein
194

195 (vi) ORIGINAL SOURCE:

196 (A) ORGANISM: Cb-AMPl
197198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
199200 Glu Leu Cys Glu Lys Ala Ser Lys Thr Trp Ser Gly Asn Cys Gly Asn
201 1 5 10 15
202203 Thr Lys His Cys Asp Asp Gln Cys Lys Ser Trp Glu Gly Ala Ala His
204 20 25 30
205

RAW SEQUENCE LISTING PATENT APPLICATION US/08/842,898

DATE: 01/14/98
TIME: 16:39:51

INPUT SET: S22556.raw

206 Gly Ala Cys His Val Arg Asn Gly Lys His Met Cys Phe Cys Tyr Phe
207 35 40 45
208
209

210 Asn Cys
211 50
212
213

214 (2) INFORMATION FOR SEQ ID NO:7:

215 (i) SEQUENCE CHARACTERISTICS:

216 (A) LENGTH: 49 amino acids

217 (B) TYPE: amino acid

218 (C) STRANDEDNESS: single

219 (D) TOPOLOGY: linear

220

221 (ii) MOLECULE TYPE: protein

222

223 (vi) ORIGINAL SOURCE:

224 (A) ORGANISM: Cb-AMP1

225

226 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

227

228 Asn Leu Cys Glu Arg Ala Ser Leu Thr Trp Thr Gly Asn Cys Gly Asn
229 1 5 10 15
230
231

232 Thr Gly His Cys Asp Thr Gln Cys Arg Asn Trp Glu Ser Ala Lys His
233 20 25 30
234

235 Gly Ala Cys His Lys Arg Gly Asn Trp Lys Cys Phe Cys Tyr Phe Asp
236 35 40 45
237

238 Cys
239
240

241 (2) INFORMATION FOR SEQ ID NO: 8:

242

243 (i) SEQUENCE CHARACTERISTICS:

244 (A) LENGTH: 47 amino acids

245 (B) TYPE: amino acid

246 (C) STRANDEDNESS: single

247 (D) TOPOLOGY: linear

248

249 (ii) MOLECULE TYPE: protein

250

251 (vi) ORIGINAL SOURCE:

252 (A) ORGANISM: Lc-AFP

253

254 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

255

256 Lys Thr Cys Glu Asn Leu Ser Gly Thr Phe Lys Gly Pro Cys Ile Pro
257 1 5 10 15
258

INPUT SET: S22556.raw

***** PREVIOUSLY ERRORED SEQUENCES - EDITED *****

102 (2) INFORMATION FOR SEQ ID NO: 3:
103 (i) SEQUENCE CHARACTERISTICS:
104 (A) LENGTH: 51 amino acids
105 (B) TYPE: amino acid
106 (C) STRANDEDNESS: single
107 (D) TOPOLOGY: linear
108
109 (ii) MOLECULE TYPE: protein
110
111 (vi) ORIGINAL SOURCE:
112 (A) ORGANISM: Rs-AFP1
113
114 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
115
116 Glx Lys Leu Cys Glu Arg Pro Ser Gly Thr Trp Ser Gly Val Cys Gly
117 1 5 10 15
118
119 Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Asn Leu Glu Lys Ala Arg
120 20 25 30
121
122 His Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr
123 35 40 45
124
125 Phe Pro Cys
126 50
127
128

129 (2) INFORMATION FOR SEQ ID NO: 4:
130
131 (i) SEQUENCE CHARACTERISTICS:
132 (A) LENGTH: 51 amino acids
133 (B) TYPE: amino acid
134 (C) STRANDEDNESS: single
135 (D) TOPOLOGY: linear
136
137 (ii) MOLECULE TYPE: protein
138
139 (vi) ORIGINAL SOURCE:
140 (A) ORGANISM: Rs-AFP2
141
142 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
143
144 Glx Lys Leu Cys Gln Arg Pro Ser Gly Thr Trp Ser Gly Val Cys Gly
145 1 5 10 15
146
147 Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Arg Leu Glu Lys Ala Arg

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/842,898DATE: 01/14/98
TIME: 16:39:58

INPUT SET: S22556.raw

148 20 25 30
149
150 His Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr
151 35 40 45
152
153 Phe Pro Cys
154 50
155
156

157 (2) INFORMATION FOR SEQ ID NO: 5:
158

159 (i) SEQUENCE CHARACTERISTICS:

160 (A) LENGTH: 50 amino acids

161 (B) TYPE: amino acid

162 (C) STRANDEDNESS: single

163 (D) TOPOLOGY: linear
164

165 (ii) MOLECULE TYPE: protein
166

167 (vi) ORIGINAL SOURCE:

168 (A) ORGANISM: Dm-AMPl
169

170 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
171

172 Glu Leu Cys Glu Lys Ala Ser Lys Thr Trp Ser Gly Asn Cys Gly Asn
173 1 5 10 15
174

175 Thr Gly His Cys Asp Asn Gln Cys Lys Ser Trp Glu Gly Ala Ala His
176 20 25 30
177

178 Gly Ala Cys His Val Arg Asn Gly Lys His Met Cys Phe Cys Tyr Phe
179 35 40 45
180

181 Asn Cys
182 50
183
184

185 (2) INFORMATION FOR SEQ ID NO: 6:
186

187 (i) SEQUENCE CHARACTERISTICS:

188 (A) LENGTH: 50 amino acids

189 (B) TYPE: amino acid

190 (C) STRANDEDNESS: single

191 (D) TOPOLOGY: linear
192

193 (ii) MOLECULE TYPE: protein
194

195 (vi) ORIGINAL SOURCE:

196 (A) ORGANISM: Cb-AMPl
197

198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

INPUT SET: S22556.raw

```

199
200 Glu Leu Cys Glu Lys Ala Ser Lys Thr Trp Ser Gly Asn Cys Gly Asn
201      1                      5              10                  15
202
203 Thr Lys His Cys Asp Asp Gln Cys Lys Ser Trp Glu Gly Ala Ala His
204          20                25                 30
205
206 Gly Ala Cys His Val Arg Asn Gly Lys His Met Cys Phe Cys Tyr Phe
207         35                40                 45
208
209
210 Asn Cys
211     50
212
213

```

```

366 (2) INFORMATION FOR SEQ ID NO: 13:
367 (i) SEQUENCE CHARACTERISTICS:
368 (A) LENGTH: 47 amino acids
369 (B) TYPE: amino acid
370 (C) STRANDEDNESS: single
371 (D) TOPOLOGY: linear
372
373 (ii) MOLECULE TYPE: protein
374
375 (vi) ORIGINAL SOURCE:
376 (A) ORGANISM: p322
377
378 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
379
380 Arg His Cys Glu Ser Leu Ser His Arg Phe Lys Gly Pro Cys Thr Arg
381 1 5 10 15
382
383 Asp Ser Asn Cys Ala Ser Val Cys Glu Thr Glu Arg Phe Ser Gly Gly
384 20 25 30
385
386 Asn Cys His Gly Phe Arg Arg Arg Cys Phe Cys Thr Lys Pro Cys
387 35 40 45
388

```

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/842,898

DATE: 01/14/98
TIME: 16:40:04

INPUT SET: S22556.raw

Line	Error	Original Text
------	-------	---------------

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/842,898DATE: 01/13/98
TIME: 15:14:28

INPUT SET: S22556.raw

This Raw Listing contains the General
Information Section and those Sequences
containing ERRORS.

SEQUENCE LISTING

(1) General Information:

(i) APPLICANT: BROEKAERT, WILLEM F.
CAMMUE, BRUNO P.A.
OSBORN, RUPERT W.
REES, SARAH B.

(ii) TITLE OF INVENTION: ANTIMICROBIAL PROTEINS

--> (iii) NUMBER OF SEQUENCES: 13

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: PILLSBURY MADISON & SUTRO LLP
(B) STREET: 1100 New York Avenue, N.W.
(C) CITY: Washington
(D) STATE: D.C.
(E) COUNTRY: U.S.A.
(F) ZIP: 20005-3918

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: Microsoft Word

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER:
(B) FILING DATE: 22-OCT-1996
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/656,318
(B) FILING DATE: 12-JUN-1996

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: PCT/GB94/02766
(B) FILING DATE: 19-DEC-1994

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: GB 9326424.0
(B) FILING DATE: 24-DEC-1993

Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING PATENT APPLICATION US/08/842,898

 DATE: 01/13/98
 TIME: 15:14:31

INPUT SET: S22556.raw

46 (2) INFORMATION FOR SEQ ID NO: 1:
 47
 --> 48 (i) SEQUENCE CHARACTERISTICS:
 --> 49 (A) LENGTH: 54 amino acids
 --> 50 (B) TYPE: amino acid
 --> 51 (C) STRANDEDNESS: single
 --> 52 (D) TOPOLOGY: linear
 53
 --> 54 (ii) MOLECULE TYPE: protein
 55
 --> 56 (vi) ORIGINAL SOURCE:
 --> 57 (A) ORGANISM: Hs-AFP1
 58
 --> 59 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 60
 61 Asp Gly Val Lys Leu Cys Asp Val Pro Ser Gly Thr Trp Ser Gly His
 62 1 5 10 15
 63
 64 Cys Gly Ser Ser Ser Lys Cys Ser Gln Gln Cys Lys Asp Arg Glu His
 65 20 25 30
 66
 67 Phe Ala Tyr Gly Gly Ala Cys His Tyr Gln Phe Pro Ser Val Lys Cys
 68 35 40 45
 69
 70 Phe Cys Lys Arg Gln Cys
 71 50
 72
 73

ERRORED SEQUENCES FOLLOW:

102 (2) INFORMATION FOR SEQ ID NO: 3:
 103 (i) SEQUENCE CHARACTERISTICS:
 104 (A) LENGTH: 51 amino acids
 105 (B) TYPE: amino acid
 106 (C) STRANDEDNESS: single
 107 (D) TOPOLOGY: linear
 108
 109 (ii) MOLECULE TYPE: protein
 110
 111 (vi) ORIGINAL SOURCE:
 112 (A) ORGANISM: Rs-AFP1
 113
 114 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
 115
 --> 116 Glx Lys Leu Cys Glu Arg Pro Ser Gly Thr Trp Ser Gly Val Cys Gly
 117 ① 5 10 15
 118
 119 Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Asn Leu Glu Lys Ala Arg
 120 20 25 30

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/842,898DATE: 01/13/98
TIME: 15:14:35

INPUT SET: S22556.raw

121
122 His Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr
123 35 40 45
124
125 Phe Pro Cys
126 50
127
128

129 (2) INFORMATION FOR SEQ ID NO: 4:
130

131 (i) SEQUENCE CHARACTERISTICS:

132 (A) LENGTH: 51 amino acids

133 (B) TYPE: amino acid

134 (C) STRANDEDNESS: single

135 (D) TOPOLOGY: linear
136137 (ii) MOLECULE TYPE: protein
138

139 (vi) ORIGINAL SOURCE:

140 (A) ORGANISM: Rs-AFP2
141142 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
143

--> 144 Glx Lys Leu Cys Gln Arg Pro Ser Gly Thr Trp Ser Gly Val Cys Gly
145 1 5 10 15
146
147 Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Arg Leu Glu Lys Ala Arg
148 20 25 30
149
150 His Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr
151 35 40 45
152
153 Phe Pro Cys
154 50
155
156

157 (2) INFORMATION FOR SEQ ID NO: 5:
158

159 (i) SEQUENCE CHARACTERISTICS:

160 (A) LENGTH: 50 amino acids

161 (B) TYPE: amino acid

162 (C) STRANDEDNESS: single

163 (D) TOPOLOGY: linear
164165 (ii) MOLECULE TYPE: protein
166

167 (vi) ORIGINAL SOURCE:

168 (A) ORGANISM: Dm-AMPl
169170 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
171

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/842,898DATE: 01/13/98
TIME: 15:14:38

INPUT SET: S22556.raw

--> 172 Glu Leu Cys Glu Lys Ala Ser Lys Thr Trp Ser Gly Asn Cys Gly Asn
173 1 5 10 15
174
175 Thr Gly His Cys Asp Asn Gln Cys Lys Ser Trp Glu Gly Ala Ala His
176 20 25 30
177
178 Gly Ala Cys His Val Arg Asn Gly Lys His Met Cys Phe Cys Tyr Phe
179 35 40 45
180
181 Asn Cys
182 50
183
184

185 (2) INFORMATION FOR SEQ ID NO: 6:
186

187 (i) SEQUENCE CHARACTERISTICS:

188 (A) LENGTH: 50 amino acids

189 (B) TYPE: amino acid

190 (C) STRANDEDNESS: single

191 (D) TOPOLOGY: linear
192193 (ii) MOLECULE TYPE: protein
194

195 (vi) ORIGINAL SOURCE:

--> 196 (A) ORGANISM: Cb-AMPI

197 ORGANISM

198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
199

200 Glu Leu Cys Glu Lys Ala Ser Lys Thr Trp Ser Gly Asn Cys Gly Asn

201 1 5 10 15
202

203 Thr Lys His Cys Asp Asp Gln Cys Lys Ser Trp Glu Gly Ala Ala His

204 20 25 30
205

206 Gly Ala Cys His Val Arg Asn Gly Lys His Met Cys Phe Cys Tyr Phe

207 35 40 45
208
209

210 Asn Cys

211 50
212
213

366 (2) INFORMATION FOR SEQ ID NO: 13:

367 (i) SEQUENCE CHARACTERISTICS:

368 (A) LENGTH: 47 amino acids

369 (B) TYPE: amino acid

370 (C) STRANDEDNESS: single

371 (D) TOPOLOGY: linear
372373 (ii) MOLECULE TYPE: protein
374

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/842,898DATE: 01/13/98
TIME: 15:14:41

INPUT SET: S22556.raw

375 (vi) ORIGINAL SOURCE:
376 (A) ORGANISM: p322
377
378 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
379
380 Arg His Cys Glu Ser Leu Ser His Arg Phe Lys Gly Pro Cys Thr Arg
381 1 5 10 15
382
383 Asp Ser Asn Cys Ala Ser Val Cys Glu Thr Glu Arg Phe Ser Gly Gly
384 20 25 30
385
386 Asn Cys His Gly Phe Arg Arg Arg Cys Phe Cys Thr Lys Pro Cys
387 35 40 45
388

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/842,898DATE: 01/13/98
TIME: 15:14:44**INPUT SET: S22556.raw**

Line	Error	Original Text
12	Number of Sequences (13) Doesn't Equal Actual Count (12)	(iii) NUMBER OF SEQUENCES: 13
48	Unknown or Misplaced Identifier	(i) SEQUENCE CHARACTERISTICS:
49	Unknown or Misplaced Identifier	(A) LENGTH: 54 amino acids
50	Unknown or Misplaced Identifier	(B) TYPE: amino acid
51	Unknown or Misplaced Identifier	(C) STRANDEDNESS: single
52	Unknown or Misplaced Identifier	(D) TOPOLOGY: linear
54	Unknown or Misplaced Identifier	(ii) MOLECULE TYPE: protein
56	Unknown or Misplaced Identifier	(vi) ORIGINAL SOURCE:
57	Unknown or Misplaced Identifier	(A) ORGANISM: Hs-AFPI
59	Unknown or Misplaced Identifier	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
117	Wrong Amino Acid Designator	1 5 10 15
145	Wrong Amino Acid Designator	1 5 10 15
173	Wrong Amino Acid Designator	1 5 10 15
196	Unknown or Misplaced Identifier	(A) ORGAh-ISM: Cb-AMP1